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I, KIM MARSHALL, MANAGER EXAMINATION SUPPORT AND SALES,  
hereby certify that the annexed is a true copy of the Provisional specification in  
connection with Application No. PP 1507 for a patent by SELWYN T. REED filed  
on 28 January 1998.



WITNESS my hand this Nineteenth  
day of February 1999

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MANAGER EXAMINATION SUPPORT AND  
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AUSTRALIA

Patents Act 1990

## PROVISIONAL SPECIFICATION

Invention Title SMART WASTE  
(Floor waste bowl and lid)

The invention is described in the following statement: .....

1. .... This invention relates to a drainage receptacle or bowl, fitted  
with a strong lid, set into the floor and connected to standard  
plumbing pipework. .... This large floor waste provides alternative  
positions for installation of floor grate to suit tiling layout. ....
2. .... In a second aspect to this invention, the lid is recessed slightly  
below floor to enable entrapped water to escape around the perimeter  
of the bowl to eliminate leakage problems. ....
3. .... The floor waste may be made from polythelene, U.P.V.C., A.B.S.  
plastic or any other rigid or semi-rigid material. The size of  
the bowl is designed to allow for average to large size floor tiles,  
pavers, bricks, to be laid on top of the lid which will be made of  
compressed fibro, reinforced cement or any other rigid, strong

(If this area is insufficient, insert extra page(s))

.....and durable material. The outlet at the bottom (or the side) is  
 .....designed to engage with matching pipes or fittings supplied by  
 .....other manufacturers.....

To assist with understanding this invention, reference will be made  
 to accompanying drawings -

Figure 1 - shows an isometric view of the floor waste (1). A top rim  
 (2) sits on a floor or determines the height of concrete, sand or any  
 other material cast or placed around it. A ledge (3) will support the  
 lid (not shown). Grooves or bumps (4) may be moulded in to allow  
 seepage to escape under lid into the bowl (5), which is sloped  
 towards the centre outlet (6). (Alternatively a side outlet (7) may  
 be moulded in).

The outlet is moulded to engage with other standard moulded pipes  
 or fittings - internally or externally - glued for sanitary use or  
 'slip fit' for landscaping.

Figure 2 - shows elevation of floor waste (1). Top rim sits on top  
 of flooring (eg timber) and may be fixed down with countersunk  
 bolts (8), set flush into moulded countersunk holes (9) in the rim,  
 tightened with nut under supporting block (10) made of timber, plywood  
 or other, supplied by installer. Alternatively concrete, sand or  
 other material may be cast or compacted around floor waste to rim level.  
 A lid (11) sits on the ledge (3) and is made of concrete, compressed  
 fibro, grating mesh or any other strong, rigid, durable material.

cont....

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23.1.98

(Date)

PROVISIONAL SPECIFICATION cont....

allowing clearance to enable any entrapped water to escape into the bowl. The lid would generally be set below the rim to prevent seepage onto the floor level.

The floor waste and lid are designed to provide alternative positions for floor grate (12) so that grate may be symmetrically and accurately positioned in the tile layout. After setting out the tile layout and identifying proposed centre point of grate, a hole would be drilled through the fibro lid and marked with a temporary screw.

A waterproofing membrane (13) may be laid over concrete or wooden floor forming a positive 'step-down' onto lid of floor waste to prevent possible leakage seeping under membrane and allowing moisture to drop down into the bowl below. The floor is rendered or plastered (14) forming an even fall towards the grating.

Tiles, pavers or other, (15) are then laid (marking centre point of grate before removing the screw). A hole is drilled with abrasive holesaw into tiles to suit the floor grate rim (16) and a smaller diameter hole is cut through the fibro lid to receive the <sup>grate</sup> rim spigot (17). Finally the floor grate fitting is set in permanently, grouted in and cleaned off.

**CONCLUSION:** By the installing of a floor waste of this type in a residential or commercial or landscaping situation the risk of leaking around the grating is eliminated by providing

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PROVISIONAL SPECIFICATION cont....

a large below-floor level low point for draining to, and a floor grate may be positioned accurately to fit symmetrically with a tile or paver pattern giving a professional finish and the enabling of a more efficient installation not previously possible with standard building practice.

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23rd January, 1998

